

SAF-RC-040
300 Area D&D Waste Characterization
Sampling - Other Solid
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Mike Stankovich

L1-01

KW 8/9/07
INITIAL/DATE

COMMENTS:

SDG 07-A-4285

SAF-RC-040

Rad only

☒ Chem only

Rad & Chem

☒ Complete

Partial

Sample Location/Waste Site: 338B Building

RECEIVED
AUG 23 2007

EDMC



8/7/07
Page 1 of 2

SUBMITTED TO:

Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354



REFERENCE DATA:

Client Sample No.:	J15F16 through J15F18
P.O. No.:	Not Available
Sample Location:	337B Building
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-4285
DCL Sample ID No.:	07-24233 through 07-24235
Sample Receipt Date:	8/3/07
Analysis Date:	8/7/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.


Shawn Smythe
Analyst


Anna Marie Ristich
Reviewer

*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government.

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**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 337B Building
Set ID: 07-A-4285

Client Sample ID:	J15F16	J15F17	J15F18
DCL Sample ID:	07-24233	07-24234	07-24235
Macroscopic Examination			
Accepted/Rejected:	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.
Color:	Grey	Grey	Grey
Texture:	Fibrous	Crmby/Fbrs	Crmby/Fbrs
Description:	Material	Material	Material
Analysis:	PLM	PLM	PLM
Asbestiform Minerals			
% Chrysotile:			
% Amosite:			
% Crocidolite:			
% Tremolite - Actinolite:			
% Anthophyllite:			
% Total Asbestos:	ND	ND	ND
Other Materials			
% Cellulose:			
% Fiberglass:		>3 ≤ 5	>3 ≤ 5
% Other Fibers:	>70 ≤ 80	>5 ≤ 10	>5 ≤ 10
% Resin/Binder:			
% Non Fibrous:	>10 ≤ 20	>80 ≤ 90	>80 ≤ 90

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

